

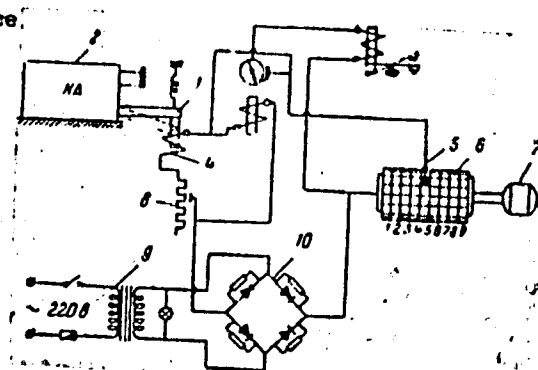
Rupturing machine with contactless

S/138/62/000/004/008/008
A051/A126

17 - weighted blocks; 18 - balancing weights; 19 - electroheater; 20 - thermal insulating layer; 21 - ventilator; 22 - viewing window; 23 - spring-type collar with transmissions; (1) thermocouples; (2) feeding block; (3) movie camera "Kiyev 16S-2); (4) time relay; (5) collector drum; (6) motor; starting up the collector drum; (7) reductor; (8) potentiometer; (9) instruments of the thermocouple, correspondingly Π_1 and Π_2 (TP).

Figure 2: Electrical circuit of the device for recording the relative elongation.

1 - clamp of the movie camera; 2 - movie camera; 3 - stand; 4 - electromagnet; 5 - sliding contact; 6 - collector drum; 7 - motor; 8 - rheostat; 9 - transformer; 10 - rectifier.



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ACCESSION NR: AP4045429

S/0190/64/006/009/1629/1636

AUTHOR: Zuyev, Yu. S., Bartenev, G.M., Kirshenshteyn, N.I.

TITLE: Longevity and strength of rubberlike polymers

SOURCE: Vy*sokomolekulyarny*ye soydineniya, v. 6, no. 9, 1964, 1629-1636

TOPIC TAGS: radiation vulcanization, polymer longevity, polymer strength, filler, synthetic rubber, vulcanized rubber, nitrile rubber, polymer structure

ABSTRACT: An investigation of the longevity and strength of unfilled radiation vulcanizates from nitrile rubbers (SKN-18, 26, 40) (equilibrium modulus = 3, 7, 12 and 24 kg/sq. cm) and filled vulcanizates from SKT and SKF rubber showed that under the influence of a constant stress, the relation $\tau = f(\sigma)$ can be expressed by the formula $\tau = B\sigma^{-n}(1)$. In many cases, however, in the same experimental range of longevity within the limits of variation, the relation $\tau = Ae^{-\sigma^2}(2)$ is valid; thus, a vulcanizate of SKN-26 filled with carbon black complies with relation (2). The $\log \tau - \log \sigma$ curves are usually paralld at high temperatures (100-150C). On decreasing the temperature to 40C, the 25° angle of inclination of the curves decreases. The apparent activation energy of destruction at high temperatures is independent of the stress, and for radiation vulcanizates, the order of

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ACCESSION NR: AP4045429

magnitude of the activation energy corresponds to the energy of intermolecular interaction of the segments of flow. In the presence of relatively weak crosslinks, they participate to a considerable extent in the rupturing process and the activation energy increases. Over the temperature range 25-40C, the apparent activation energy increases with increasing stress. The latter can be explained by the fact that with increasing stress, either the destruction of the supermolecular structure increases, or the contribution of the ruptured chemical bonds increases. With increasing temperature, for many vulcanizates such as SKN-40, SKN-26 and SKN-18, an inversion of longevity and strength is observed. This is probably due to the fact that at increased temperatures, the strength properties are determined by the imperfection of the molecules, which is greater for SKN-40 than for a SKN-18, while at normal temperatures, the negative influence of the imperfection of the molecules is overlapped by the positive effect of the intermolecular interaction and the supermolecular structures. On increasing the density of the three-dimensional network, the longevity (as well as the strength) varies according to a curve with a maximum. The location of this maximum does not change with increasing temperature. An increase in temperature

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ACCESSION NR: AP4045429

diminishes the effect of the density of the network and the effect of the amount of inter-molecular interaction on the longevity. Finally, the longevity of vulcanizates characterized by the nature of the crosslinks is much greater when the crosslinks have a greater mobility. Orig. art. has: 7 figures, 2 tables and 3 formulas.

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovoy promy'shlennosti (Scientific Research Institute of the Rubber Industry)

SUBMITTED: 26Oct63

ENCL: 00

SUB CODE: OC, MT

NO REF SOV: 016

OTHER: 001

Card 3/3

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000722720012-8

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000722720012-8"

ZUYEV, Yu.S.; BARTENEV, G.M.; KIRSHENSHTeyN, N.I.

Analyzing the lasting quality of rubber under various methods of testing. Kauch. i rez. 23 no 9:14-16 S '64.

(MIRA 17:11)

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti.

ARISTOV, N.P., kand. tekhn. nauk.; BLAGOSKLOVSKIY, T.I., kand. khim. nauk.;
 VESELOVSKIY, V.S., prof., doktor tekhn. nauk.; VLADISLAVLEV, V.S.,
 prof., [deceased]; GOSTENINA, V.M., inzh.; GRINBERG, B.G., kand.
 tekhn. nauk.; KATTS, N.V., kand. tekhn. nauk.; KESTNER, O.Ye., kand.
 tekhn. nauk.; KIDIN, I.N., prof., doktor tekhn. nauk.; KIRSHENSHTEYN,
 Ye.L., inzh.; KITAYGORODSKIY, I.I., prof., doktor tekhn. nauk.;
 KOLOBNEV, I.F., kand. tekhn. nauk.; KRYLOV, V.V., kand. tekhn. nauk.;
 LAKHTIN, Yu.M., prof., doktor tekhn. nauk.; LEVI, L.I., kand. tekhn.
 nauk.; LEPETOV, V.A., kand. tekhn. nauk.; LUNEV, A.A., kand. tekhn.
 nauk.; LUNEV, F.A., kand. tekhn. nauk., [deceased]; LOTSMANOV, S.N.,
 kand. tekhn. nauk.; MAURAKH, M.A., kand. tekhn. nauk.; MINKEVICH,
 A.N., kand. tekhn. nauk.; OCHKIN, A.V., inzh.; POPOV, V.A., kand.
 tekhn. nauk.; RAKOVSKIY, V.S., kand. tekhn. nauk.; SHESTOPAL,
 V.M., kand. tekhn. nauk.; ACHERKAN, N.S., prof., doktor tekhn.
 nauk, glavnyy red.; MALOV, A.N., red.; POZDNYAKOV, S.N., red.;
 ROSTOVYKH, A.Ya., red.; STOLBIN, G.B., red.; CHERMAVSKIY, S.A., red.;
 KRYLOV, V.I., inzh., red.; KARGANOV, V.G., inzh., red. graficheskikh
 rabot.; SOKOLOVA, T.F., tekhn. red.

[Metal worker's handbook in five volumes] Spravochnik metallista v
 p'яти tomakh. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.
 lit-ry. Vol. 3. Book 1. 1958. 560 p. (MIRA 11:11)
 (Metals--Handbooks, manuals, etc.)

KIRSHENSTEYN, M.I.

KIMNOV, Vladimir Ivanovich; YANOVSKIY, Il'ya Iosifovich; ~~KIRSHENSTEYN~~
~~Ye. L.~~ inzhener, redaktant; GLUSHKOV, G.S., professor, doktor
tekhnicheskikh nauk, redaktor; VOLODIN, V.L., redaktor izdatel'stva;
BL'KIND, V.D., tekhnicheskiiy redaktor

[Machines and instruments for testing materials] Mashiny i pribory
dlya ispytaniya materialov. Moskva, Gos.nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1957. 300 p. (MLPA 10:10)
(Testing machines)

KIRSHENSHTEYN, Ye. L.

VLADISLAV V. S.

[illegible][illegible]

REMARKS: The book is a reference book for technicians and engineers working in the field of machinery design and in production.

Abstract: The book covers the following: engineering specifications, treatment and use of cast iron, steel and cast steel, heat treatment of steel and cast iron, specifications, treatment and use of nonferrous metals and nonmetallic materials. L.A. Rosenberg, T.A. Rosenberg, T.A. Rosenberg, N.Y. Rosenberg are mentioned as having collaborated in this field.

Salivation of the Surface of Station Parts and Instruments
(Dr. J. K. Kishimoto, Engineer)
Salivation process
Composition of the bath
Results of salivation
Salivation equipment

参考文献

NATAN, Zhak, prof.; GOSIN, I.Ya.[translator]; PAVPEROV, V.P.
[translator]; KIRSHEVSKAYA, A.N., red.; LEVINA, Ye., red.;
RYBKINA, V., ~~tekhn.~~ red.

[History of economic development in Bulgaria] Istoriiia eko-
nomicheskogo razvitiia Bolgarii. Predisl. i red. A.N.Kirshev-
skoi. Translated from the Bulgarian. Moskva, Izd-vo inostr.
lit-ry, 1961. 498 p. (MIRA 15:3)

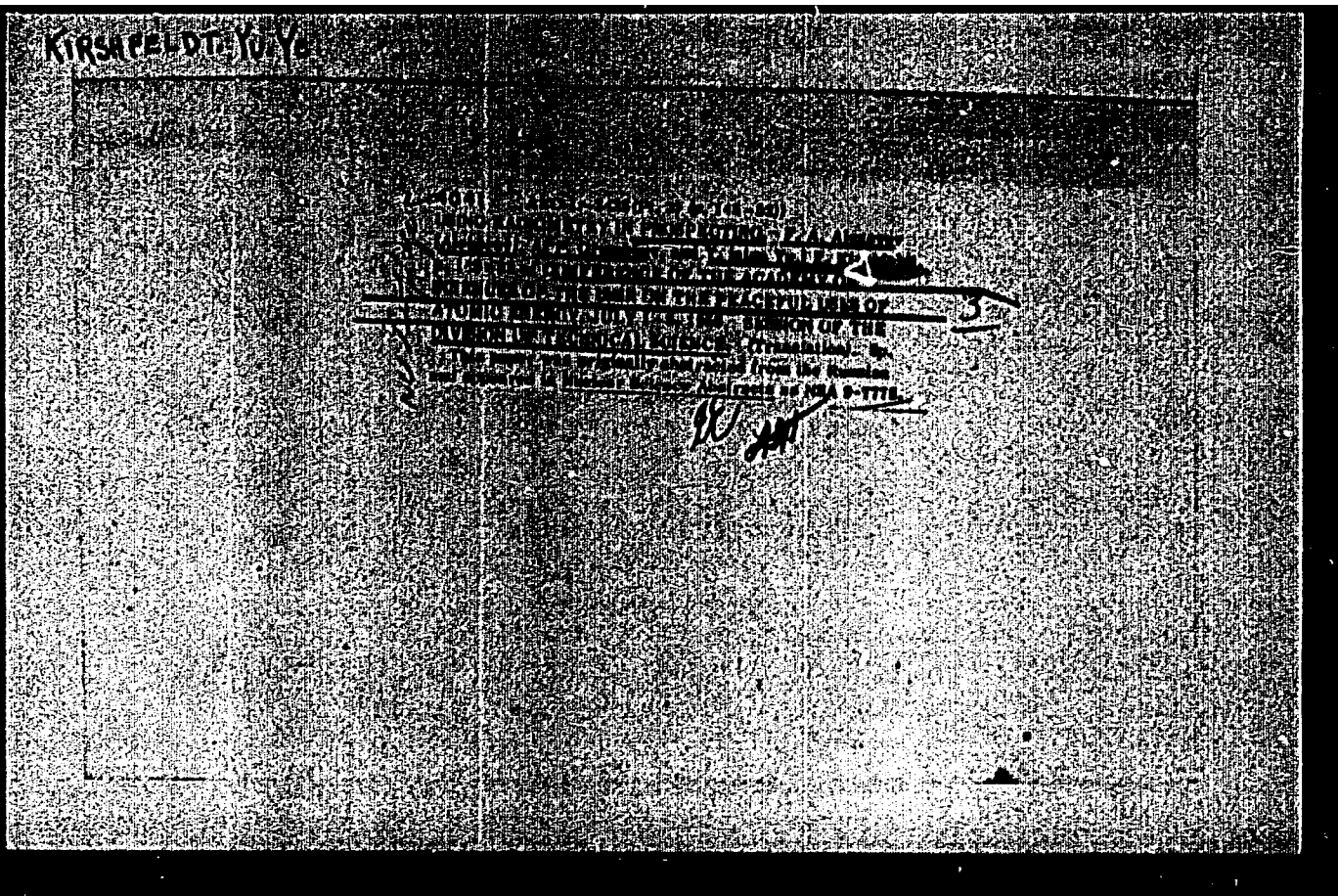
1. Deystvitel'nyy chlen Bolgarskoy Akademii nauk (for Natan).
(Bulgaria--Economic conditions)

KIRSHFELD, I. P.

FILATOV, V.P.; KIRSHFELD, I.P.; SKORODINS'KA, V.V., starshiy nauchnyy
spivrobitnik; SHEVAL'OV, V.Ye., starshiy nauchnyy spivrobitnik

Tissue therapy for leprosy. Medych.zhur. 16:371-389 '47. (MIRA 10:12)

1. Z Ukrains'kogo naukovo-doslidnogo eksperimental'nogo institutu
ochnikh khvorob im. V.P.Filatova (direktor - laureat Stalins'koi
premi diysniy chlen AN URSR V.P.Filatov). 2. Direktor Ukrains'kogo
leprozoriyu (for Kirshfel'd)
(TISSUE EXTRACTS) (LEPROSY)



KIRSHFELD, Yu.E.

Mass-spectrometric analysis and its use in petroleum geology.
Trudy MINKHIGP no.50:224-231 '64 (MIRA 18:2)

KIRSHIN, G.F.

120-6-16/36

AUTHORS: Bochagov, B.A., Kocharov, G.Ye., and Kirshin, G.F.

TITLE: An Improvement in the Energy Resolution of the Ionisation Chamber with a Grid (Uluchsheniye razreshayushchey sposobnosti po energii impul'snoy ionizatsionnoy kamery s setkoy)

PERIODICAL: Pribery i Tekhnika Eksperimenta, 1957, No.6, pp. 72 - 74 (USSR)

ABSTRACT: The main factors are considered which have an effect on the energy resolution of an ionisation chamber containing a grid. As is known, the presence of even a small impurity of gases such as oxygen, water vapour, etc. considerably worsen the energy resolution. To clean up the gas a sodium "filter" was used. The clean-up took about 2 to 3 hours. By a suitable choice of the first valve of the amplifier, and by suitable matching, the RMS value of the noise was reduced to 6.8 keV, which is less by 3.2 keV than that quoted in Ref.4. It is shown that the Soviet valve 6X17 has better noise properties than the American valve 6AK5. The signal-to-noise ratio depends on the pass band of the amplifier as well as the characteristics of the first valve. To obtain a maximum signal-to-noise ratio, it is necessary to use valves having a small grid current as well as very curved characteristics. The energy spectrum of

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120-6-16/36

An Improvement in the Energy Resolution of the Ionisation Chamber
with a Grid.

α -particles from U^{234} and U^{238} (Ref.6) was measured using the
above improved circuitry. The half width of the α -lines was
found to be about 30 keV. The following persons collaborated:
A.P. Komar, A.A. Vorob'yev and S.N. Nikolayev.
There are 5 diagrams and 6 references, 3 of which are Slavic.

ASSOCIATION: Physico-Technical Institute Ac.Sc. USSR.
(Fiziko-tehnicheskii Institut AN SSSR)

SUBMITTED: January 17, 1957.

AVAILABLE: Library of Congress.

Card 2/2

KIRSHIN, I.K., Cand Bio Sci -- (diss) "Cycle of
seasonal development of perennial grasses in the
~~Ural~~ ^{Central} Urals." Sverdlovsk 1958, 23 pp. (Min of Higher
Education USSR. Ural ~~State~~ State Univ im A.M. Gor'kiy)
150 copies (KL, 39-58, 108)

- 20 -

KLENN, O.K.

photoperiodical reactions of the dry mass. 5q. 1verl. otd.
Vib no.3:69-85 164 (1981 18:2)

KIRSHIN, I.K.; DEYNEGA, L.V.

Changes in the leaf growth of grasses under the effect of gibberellin during short and long days. Bot.zhur. 49 no.10:1501-1506 0 '64.
(MIRA 18:1)

1. Ural'skiy gosudarstvennyy universitet imeni A.M.Gor'kogo, g. Sverdlovsk.

KIRSHIN, I.K.

Interrelations among individual species in leguminous and
and gramineous grass mixtures under conditions of prolonged
use. Zap. Sverd. otd. VBO no.2:41-50 '62. (MIRA 16:8)

KIRSHIN, I.K.

Growth responses of meadow grasses to the photoperiod. Fiziol. rast.
10 no.6:682-691 N-D '63. (MIRA 17:1)

1. A.M. Gorky Ural State University, Sverdlovsk.

KIRSHIN, I.K.

Intercalary growth of grass leaves. Dokl. AN SSSR 142
no.2:474-477 Ja '62. (MIRA 15:2)

1. Ural'skiy gosudarstvennyy universitet im. A.M.Gor'kogo.
Predstavleno akademikom A.L.Kursanovym.
(Grasses)
(Growth(Plants))

KIRSHIN, V.

Running over waves. Znan.-sila 37 no.11:48 N '62. (MIRA 16:1)
(Hydroplane boats)

KIRSHIN, V. A., Cand of VetSci -- (diss) "Reaction of an organism in the use of the new surgical suturing material-- anide-silk No 34 during experimental research on animals." Kazan', 1957, 17 pp (Kazan' State Veterinary Institute im N. E. Bauman), 100 copies (KL, 32-57, 95)

KONONENKO, A.S., inzh.; KIRSHINA, K.V., inzh.

Aggregates for ordinary concrete made from wastes in the
concentration of asbestos. Stroimaterial. 8 no.1:17-20 Ja '62.
(MIRA 15:5)

(Aggregates (Building materials))

ACC NR: AP7007678

SOURCE CODE: UR/0386/66/003/002/0064/0069

AUTHOR: Kormer, S. B.; Yushko, K. B.; Kirshkevich, G. V.

ORG: none

TITLE: Dependence of the refractive index on the density of the solid and liquid phases of shock-compressed ionic crystals. Relaxation time of phase transformation under shock compression

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu, v. 3, no. 2, 1966, 64-69

TOPIC TAGS: ionic crystal, refractive index, alkali halide, compression shock wave, shock wave front

ABSTRACT: The refractive indices of shock-compressed alkali-halide compounds were investigated. For LiF, which remains transparent in the investigated range of pressures up to $P \approx 700$ kbar, the refractive index was determined directly from the paths of the rays in the compressed matter. For NaCl, CsBr, KCl, and KBr crystals, which become opaque behind the shock-wave front, the refractive indices were determined by Fresnel's formulas from the experimentally-measured coefficients of reflection of natural light incident on the front of the shock wave. The dependence of the refractive index on the degree of compression σ (where $\sigma = \rho/\rho_0$ is the running density and ρ_0 the density at $T = 300^\circ\text{K}$ and $P \approx 0$) for the crystals LiF, NaCl, and

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UDC: none

ACC NR: AP7007678

CsBr, which do not experience polymorphic transformations in the investigated range of pressures, is represented in Fig. 1 for the region $\sigma > 1$. So long as the shock compressed crystal remains in the solid phase, the refractive index changes relatively little with the density. The refractive index increases appreciably

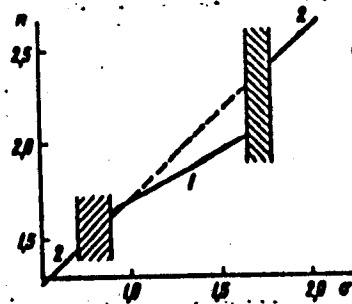


Fig. 1. Refractive index of ionic crystals vs. density in the solid and liquid phases

when the melting is in a compressed state (see Fig. 1). The experimental points obtained for the liquid phase of the crystals CsBr, KCl, and KBr fit the relation (1) quite well, but only if $dn/d\sigma$ is approximately 15 - 17 times larger than in the solid phase. At normal pressure the change in density of the alkali halides in the liquid

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ACC NR: AP7007678

state changes the refractive index by about 1.5 times more than in the solid state. In investigating the reflectivity of the shock-wave front in the solid phase of KCl and KBr it was noted that at $P \approx 140$ kbar the reflection coefficient is 2 - 3 times smaller than that corresponding to a relation of the type (1) for $n(\sigma)$, with values of $dn/d\sigma$ that follow from whereas at $P \approx 200$ kbar for KCl and 260 kbar for KBr the obtained results are close to those expected. We recall (see Sec. 1 and the table) that for other crystals the results of the measurements were in satisfactory agreement with earlier data. It is natural to relate the indicated difference with the polymorphic transformation of KCl and KBr into the CsCl structure, which occurs at $P \approx 20$ kbar assuming that up to $P \leq 140$ kbar the phase transformation of KCl and KBr occurs after a time $\tau > 10^{-11}$ sec, the light will be reflected from a layer of matter situated on the front of the shock wave in a metastable state (point 1, Fig. 2), corresponding to the dynamic adiabat of the first phase ϕ). Since the latter is steeper than the adiabat of the second phase, a smaller density jump on the shock-wave front corresponds also to a smaller refractive index. The non-equilibrium states of the first phase of KCl and KBr (point A, Fig. 2), determined from the shock-wave velocity, from the dependence (1) with $dn/d\sigma$ as given in the table, and from the measured reflection coefficient, are shown in Fig. 2. For KCl the point obtained lies somewhat to the left of the first-phase adiabat calculated from the equation of state. With increasing pressure, the temperature increases (for KCl, $T = 1300^\circ\text{K}$ at $P = 136$ kbar and $T = 2100^\circ\text{K}$ at $P = 200$ kbar), the relaxation time decreases, and the phase transformation takes place in a layer thinner than $\lambda/2\pi$ (λ = wavelength of the incident light). In this case the refractive index will correspond to the

Cord 3/5

ACC NR: AP7007678

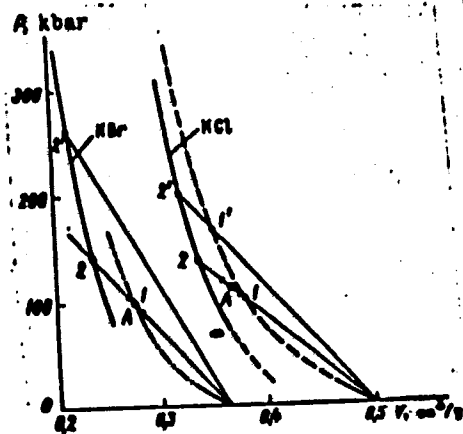


Fig. 2. Equilibrium and non-equilibrium dynamic adiabats of KCl and KBr. — calculated after [12,3], - - - - - calculated after [3], interpolation, -o-o-o present experiments.

Cord 4/5

ACC NR: AP7007678

total jump in volume behind the front of the shock wave (point 2', Fig. 2). Considering that the values of $dn/d\sigma$ obtained for phase II turned out to be close to the values for phase I, the measured reflection coefficients were close to those expected. Thus, upon shock compression with $P = 200 - 260$ kbar, the polymorphic transition in KCl and KBr takes place within a time $\tau < 10^{-11}$ sec. (The polymorphic transition, interesting, has no effect on the $n(\sigma)$ dependence of these ionic crystals.) The same time is characteristic also of melting in the shock-wave front, since the refractive index (reflection coefficient) experiences a jump at pressures corresponding to the transition of the solid phase into liquid (see Fig. 1). Orig. art. has: four formulas.

SUB CODE: 20 / SUBM DATE: 01Nov65 / ORIG REF: 005
OTH REF: 008

Card 5/5

GIRSHBERG, V.V., inzh.; BRODSKIY, Yu.A., inzh.; KIRSHMAN, R.V., inzh.;
MALINOVSKAYA, Z.N., inzh.; TRIFONOVA, T.P., inzh.;
KHODNEV, V.V., inzh.

Large-block units of electric power supply equipment for
agriculture. Elektrotehnika 34 no.11:1-7 N '63.
(MIRA 17:2)

KIRSHNER, B.S. .

Strengthening of glass containers by means of protective or-
ganosilicon coatings. Leh. prom. no.2:61-63 Ap-Je'64
(MIRA 17:7)

KIRCHNER, RAL.

Ways to lengthen the operational life of glass furnaces. Leh. prom.
no. 1833-16. Jash. 1965. (MIRA 18:4)

KIRSHNER, G. K. Cand Med Sci -- (dss) "Coordination shifts during rhythmical work." Mos, 1959. 16 pp (Inst of Labor Hygiene and Occupational Diseases, Acad Med Sci USSR), 400 copies (KL, 52-59, 125)

-126-

KIRSHNER, G.K. (Varshava)

Peculiarities in the disturbance of a dynamic stereotype in
rhythemical work. Gig. truda i prof. zab. 4 no. 7:12-17 J1
'60. (MIRA 13:8)

1. Institut fizicheskoy kul'tury.
(WORK, METHOD OF)

L 16897-63 INT(1)/CC(G)/RDS AFFIC/ASD/1JP(G)

ACCESSION NR: AP3005259

S/0056/63/045/002/0143/0154

AUTHOR: Kiranids, D. A.

51
53

TITLE: Contribution to field theory with nonlocal interaction. II. Dynamic apparatus of the theory

SOURCE: Zhur. eksper. i teoret. fiz., v. 45, no. 2, 1963, 143-154

TOPIC TAGS: field theory, nonlocal interaction, dynamic formulation, Heisenberg equation, S-matrix formalism, Schrodinger representation, energy-momentum operator, charge operator

ABSTRACT: In this continuation of an earlier paper (ZhETF v. 41, 551, 1961) it is shown that a space-time (in particular, Hamiltonian) description can be used for a system of fields interacting in a nonlocal manner. The dynamic apparatus of the theory is based on the renormalized Heisenberg field equations so modified as to lead automatically to a unitary scattering matrix. For this purpose, the S-matrix representation introduced in the earlier paper is applied in the form of an exponential function that is ordered with respect to the charge. The forms of the energy-momentum and charge operators, as well as the field operators in the

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L 16895-63

ACCESSION NR: AF3005259

Schrodinger representation, are also found. It is shown that the nonlocal field theory raises no difficulty with negative energy no matter what form factor is chosen. "The author is grateful to I. Ye. Tamm and M. A. Markov, and the participants of their seminar, for a useful discussion of this work. The author thanks especially V. Ya. Fainberg for a detailed discussion of several problems touched upon in the paper." Orig. art. has: 33 formulas.

ASSOCIATION: Fizicheskii Institut im. P. N. Lebedeva Akademii nauk SSSR
(P. N. Lebedev Physics Inst. Acad. Sci. SSSR)

SUBMITTED: 28Nov62

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: FH

NO REF SOV: 007

OTHER: 010

Card 2/2

KIRSHON, E.M.

Kirshon, E.M. "Research on the leather parts of oxygen equipment,"
Kislod, 1948, No. 5, n. 30-37

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

KIRSHON, E. M.

KIRSHON, E. M. -- "Properties of Leathers Under Low Temperatures."

Sub 30 Dec 52, Moscow Technological Inst of Light Industry imeni L. M.
Kaganovich. (Dissertation for the Degree of Candidate in Technical Sciences).

SO: Vechernaya Moskva, January December 1952

KIRSHON, E.M.

Lacquers for the protection of metallic bobbins. Tekst. prom. 18
no.3:18-19 Mr '58. (MIRA 11:3)
(Bobbins (Textile machinery)) (Protective coatings)

KIRSHON, E. M.

Protection of machine parts from corrosion in the production of synthetic fibers. Khim. volok, no.6:41-44 '62.

(MIRA 16:1)

1. Tsentral'nyy nauchno-issledovatel'skiy institut vspomogatel'nykh izdeliy i zapasnykh detaley k tekstil'nomu oborudovaniyu.

(Textile machinery--Corrosion)

KIRSHTEYN, B.A.
25666

Za Vysokuyu Kul'Turu Otdelochnogo Prosvodstva.
Tekstil. Prom-St', 1948,
No 6, S. 30-32

SO: LETOPIS NO. 30, 1948

LIGERMAN, Iosif Izrailevich; KORENEVSKIY, A.N., inzh., retsenzent;
KIRSHTEYN, D.B., inzh., red.; KISELEVA, T.I., red.izd-va;
ISENT'YEVA, P.G., tekhn.red.

[Wiring diagrams for the installation of electrical systems in
metallurgical shops] Montashnye skhemy elektroustanovok metal-
lurgicheskikh tsekhov. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry
po chernoi i tsvetnoi metallurgii, 1959. 97 p. (MIRA 12:11)
(Electric wiring)
(Metallurgical plants--Electric equipment)

24.68/0

LL672
S/197/62/000/012/001/002
B104/B186

AUTHORS: Vitolin', A., Kirshteyn, G., Krumin', Yu.

TITLE: Measurement of the magnetic field strength in the
experiment with electron paramagnetic resonance

PERIODICAL: Akademiya nauk Latviyskoy SSR. Izvestiya, no. 12(185),
1962, 57-66

TEXT: Two variants of an apparatus have been developed by which frequency marks and e.p.r. spectra are simultaneously recorded on a tape. The magnetic field is stabilized by proton resonance. The first variant uses a superheterodyne frequency measuring method. Principle: Two signals are fed to the mixer tube: that of the frequency to be measured, and that of the voltage of a quartz resonator with comparatively low fundamental frequency, ν_0 . The mixer tube is connected with a narrow band amplifier adjusted for the frequency $\nu_0/2$. A signal is given at the amplifier output if the frequency to be measured is equal to a frequency lying between two harmonic oscillations of the quartz generator. This

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Measurement of the magnetic ...

S/197/62/000/012/001/002
B104/B186

signal produces a pulse which records a mark on the tape. The second variant uses a resonance frequency measuring method in which the input impedance of an artificial long line (connected as anode load) changes with the frequency of the input signal. A field marker correlates the measured frequencies and the resonance spectrum on a tape. There are 7 figures. ✓

ASSOCIATION: Institut fiziki AN Latv. SSR (Institute of Physics AS LatSSR)

SUBMITTED: April 24, 1962

Card 2/2

KIRSHTEYN, G.K.

The KA276 630 ton-capacity press. Biul.tekh.-ekon.inform.
no.5:30-31 '61. (MIRA 14:6)
(Power presses)

ACCESSION NR: AP4031875

8/0286/64/000/007/0067/0067

AUTHOR: Kalnin, R. K.; Rybakov, E.K.; Ginzburg, A. S.; Kirshteyn, G. Kh.;
Sermon, G. Ya.

TITLE: Flow meter for measuring electroconducting fluids. Class 42, No. 161514

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1964, 67

TOPIC TAGS: flow meter, electroconducting fluid meter, traveling magnetic field

TRANSLATION: The flow meter for measuring the velocity of electroconducting fluids covered by this author's certificate consists of two inductors, which set up traveling magnetic fields, two yokes with sensing coils, and an indicator. In order to eliminate any effect that the meter may have on the flow of the liquid, the two inductances are so oriented that their traveling magnetic fields meet head-on.

ASSOCIATION: none

SUBMITTED: 21Jan63

DATE ACQ: 29Apr64

ENCL: 00

SUB CODE: IE, SD

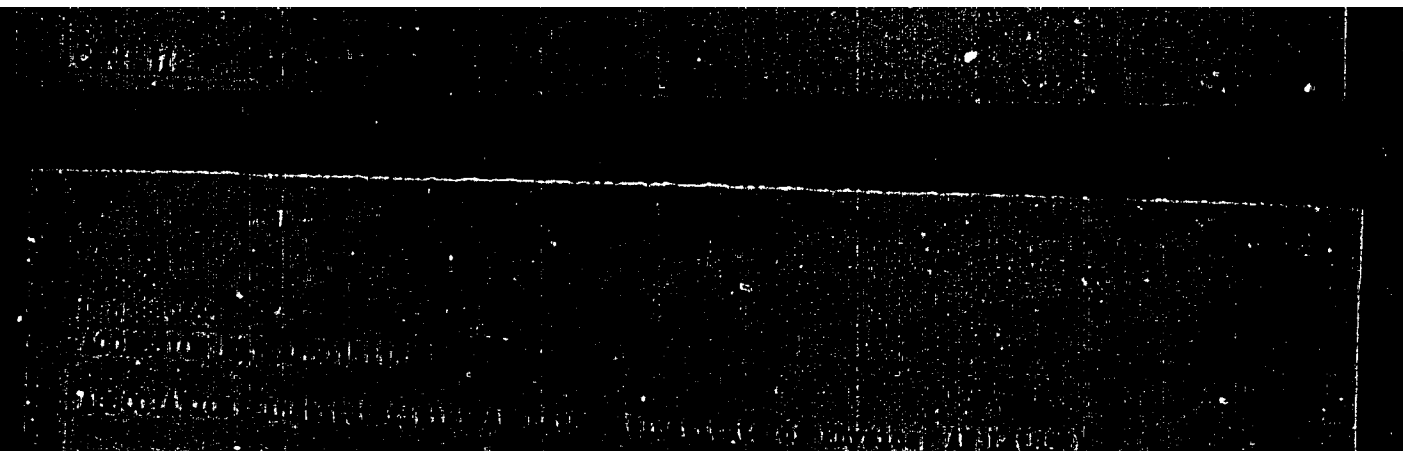
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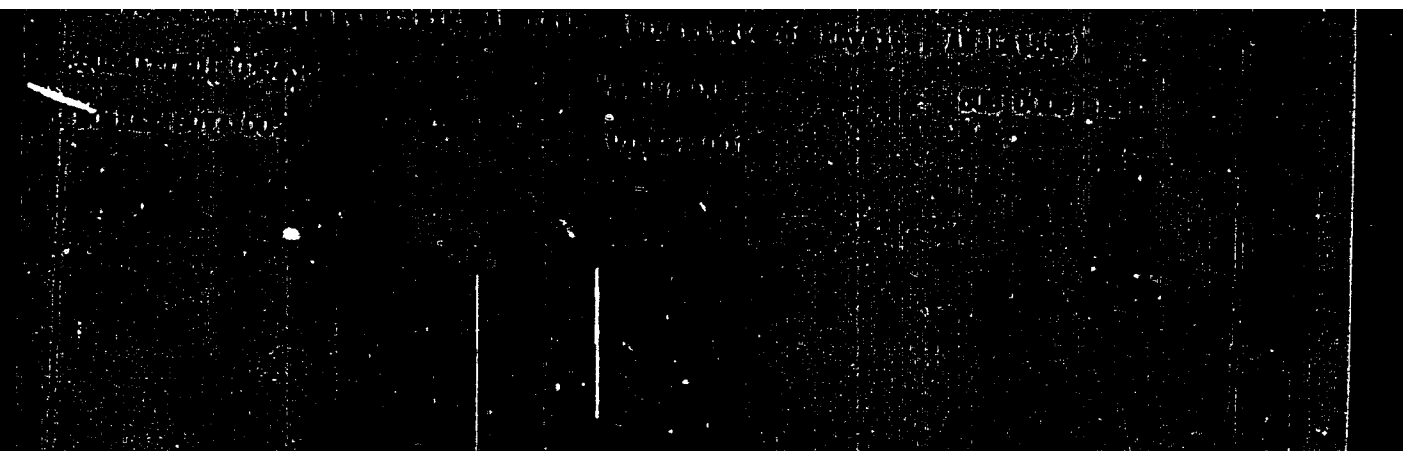


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L 05059-67 EWT(d)/FSS-2/EWT(m)/EWP(w)/EEC(k)-2/EWP(v)/EWP(k) IJP(c) AST/EN/JT

ACC NR: AM6013867

Monograph

UR/ 70

Seleznev, Vasilii Petrovich (Engineer, Colonel, Doctor of Technical Sciences, Professor); Kirs, Mikhail Andreyevich (Candidate of Technical Sciences)

9
Aerospace vehicle navigation systems (Sistemy navigatsii kosmicheskikh letatel'nykh apparatov) Moscow, Voenizdat M-va obor. SSSR, 1965. 207 p. illus, biblio. 4500 copies printed.

TOPIC TAGS: space navigation, celestial navigation, navigation aid, navigation system, navigation equipment, satellite navigation, spacecraft navigation

PURPOSE AND COVERAGE: This book is intended for all personnel engaged in aeronautics, for aeronautics schools, and for general readers interested in space navigation. It systematically discusses the navigational systems used aboard aerospace vehicles and in ground centers, classifies such systems, and describes the progress being made in navigation engineering. Stress is laid on the importance of reliability and accuracy of instrumentation and devices, the automatic reaction of devices to environmental conditions, solar mechanics,

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and astronomy. This book has 80 illustrations.

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Ch. I. Fundamentals in the development of space navigation -- 7

Ch. II. Determining navigational parameters in spacecraft -- 17

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SUB CODE: 17/ SUBM DATE: 30Oct65/ ORIG REF: 15/ OTH REF: 022

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SELEZNEV, Vasilii Petrovich, inzh.-polkovnik, doktor tekhn. nauk
prof.; KIRST, Mikhail Andreyevich, kand. tekhn. nauk;
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PA 25/49T53

USSR/Medicine -- Cattle

Dec 48

Medicine -- Endocrine Glands

"Seasonal Activity of the Endocrine System,"
E. A. Kirst, 2 pp

"Priroda" No 12

Activity of some parts of the endocrine system
is governed by seasonal and climatic factors.
Mentions some USSR scientists who have been
studying this phenomenon. Presents seven graphs
showing changes in weight of various glands in
cattle according to seasons.

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"Use of Hydrometric Devices and Equipment in a Network of Stations and Posts," B. T. Kirsta, Ashkhabad Admin of Hydrometeorol Sv of Turkmen SSR

"Meteorol i Gidrologi" No 6, pp 47, 48

States that a readjustment developed between (a) requirements of reliability and accuracy of instruments at observation posts and (b) the availability of crude equipment and instructions. Notes that, since 1949 the State Hydrol Inst has systematically published "Metodicheskiya

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Ukazaniya" (Methodical Instructions), but they are insufficient. Kirsta suggests improvements.

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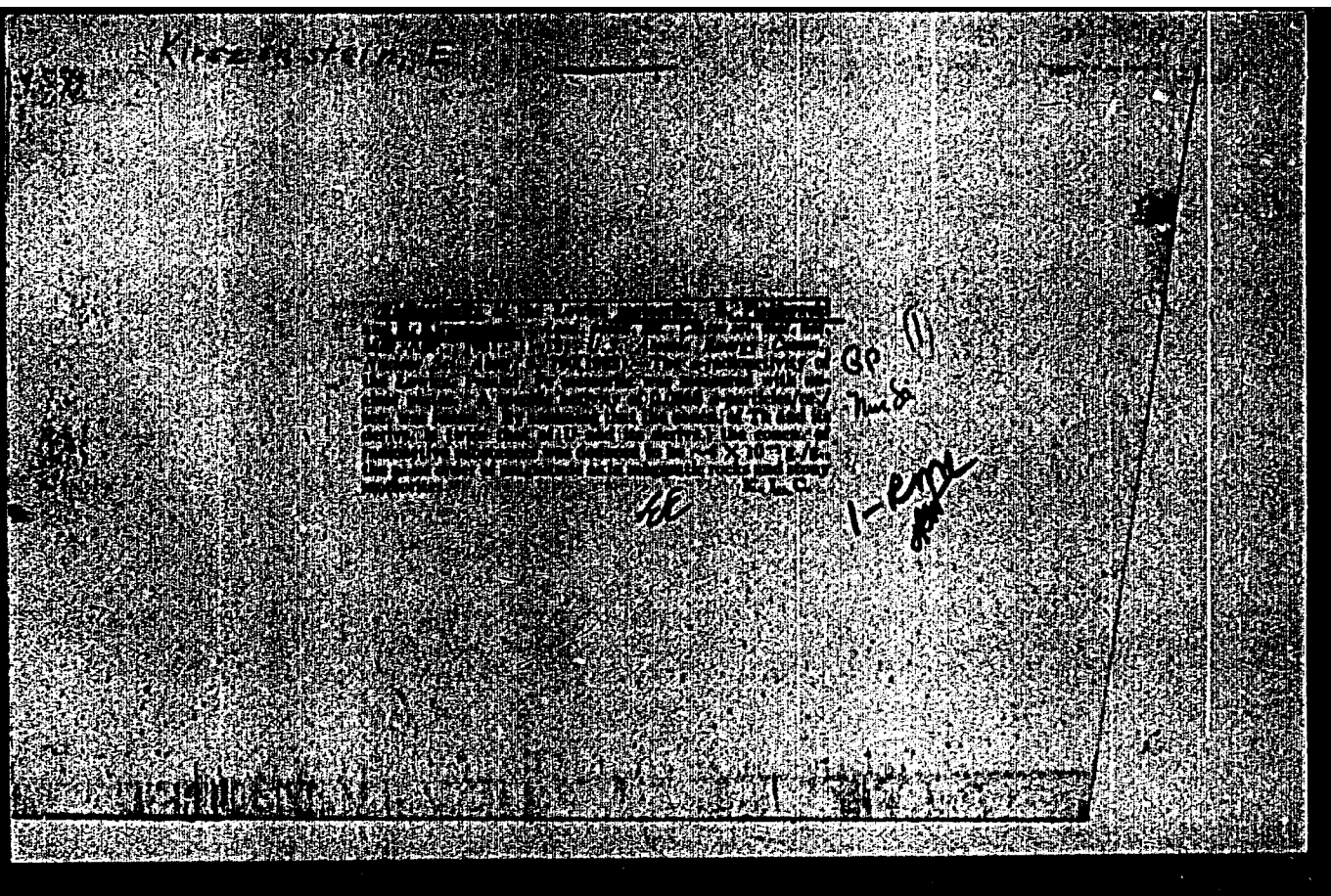
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1956

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[Zamors'kyi, V.V.], prof., red.; KOSOVSKIY, V.A. [Kosovs'kyi, V.A.],
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